

Figure 2



"Replacement Sheet"

Mutation	Exemplary Pool	3' blocking group	Oligo type (Am)	Sequence (5'-3')
2789+G>A	1	none	inviader	TTGGTTGTCGTCGGCTCTGGAAAGTGT (SEQ ID NO:1)
2789+G>A	1	hex	probe/DM	CGGCCGCGAGGATTCGTCGGCTCTGGAAAGTGT (SEQ ID NO:2)
2789+G>A	1	none	synthetic target	CAATCTACATAGGAGATTAATCTCCAGGACAAACCCAAA (SEQ ID NO:3)
R1162X	1	none	inviader	GTITACCTCTGGTGGCGATGCAATGAACCTAAAGACTCT (SEQ ID NO:4)
R1162X	1	hex	probe/DM	CGGCCGCGAGGATTCGTCGGCTCTGGAAAGTGT (SEQ ID NO:5)
R1162X	1	none	synthetic target	TCAGATGCCGATCTGGCTGAGCTTAATGTCATTGACATGCCAACAGAAAGTAAAC (SEQ ID NO:6)
R347P	4	none	inviader	CAAGGAAATTCGGCAGGTGACGCCATGT (SEQ ID NO:7)
R347P	4	hex	probe/ER24	ACGGACGCCGAGGACAACTGGCTGACCTGGG (SEQ ID NO:8)
R347P	4	none	synthetic target	CTCATCTCGATGTTCTGCCCATCTGGCTACCTGGG (SEQ ID NO:9)
1898+G>A	1	none	inviader	GACTCTCTTGTGATCCTAGATGTTTAACAGAAAGAAATTTGAAAGT (SEQ ID NO:10)
1898+G>A	1	hex	probe/DM	CGGCCGCGAGGATTCGTCGGCTCTGGAAAGTGT (SEQ ID NO:11)
1898+G>A	1	none	synthetic target	ATAAGTAAGGATGTTCAAGAAACATCTTCAAATTTCTGTTAAAACATCTAGGTATCCAAAAGGAGAGTC (SEQ ID NO:12)
2184delA	4	none	inviader	CCCCAAACCTCTCCACGCTGTTAAAGATTATTTC (SEQ ID NO:13)
2184delA	4	hex	probe/DM	CGGCCGCGAGGACAACTGGCTGTCGAGACAA (SEQ ID NO:14)
del507	1	none	inviader	GCTTTGATGAGCTCTGTATCATAGGAAACCAAT (SEQ ID NO:15)
del507	1	hex	probe/DM	CGGCCGCGAGGAGATACTCTTAATGGCTCC (SEQ ID NO:16)
del507	1	none	synthetic target	GCCCTGACATTAAGAAATCTGCTCTTAATGA GAATATAGATAGAAAGGCTATCTAAAGGATGCC (SEQ ID NO:17)
G88E	4	none	inviader	GGCCCTGGCGATGTTCTGGGATTATCTCTATGT (SEQ ID NO:18)
G88E	4	hex	probe/ER24	AAGGACGCGGAGAAATCTTATAATTAGGGTAAG (SEQ ID NO:19)
G88E	4	none	synthetic target	AATCATAGCTCTCTGACCCCGATAACAGGAAACT (TCAGAGAACATAATCTCGCGGAAGGCCATTA (SEQ ID NO:20)
R117H	3	none	inviader	AAATCATAGCTCTCTGACCCCGATAACAGGAAACT (SEQ ID NO:21)
R117H	3	hex	probe/DM	CGGCCGCGAGGACTCTACGCCGATTAACT (SEQ ID NO:22)
R117H	3	none	synthetic target	CATGCAATGAACTTACCGAAATGCTGAGTGTGATTGATT (SEQ ID NO:23)
R560T	1	none	inviader	ACGGACGCCGGAGGTTGCTAAAGAAATTCTGT (SEQ ID NO:24)
R560T	1	hex	probe/ER24	ACGGACGCCGGAGGTTGCTAAAGAAATTCTGT (SEQ ID NO:25)
R560T	1	none	synthetic target	CAACGAGGAATGTTCAAGAACCTTACAGAACTCTC (SEQ ID NO:26)
3120+G>A	2	none	inviader	GCAATTGGTGGATGCTCTGGCTCTAACCTCCAGT (SEQ ID NO:27)
3120+G>A	2	hex	probe/DM	CGGCCGCGAGGATTAATGGACCTTAAAGTACCGTTAA (SEQ ID NO:28)
3120+G>A	2	none	synthetic target	AGACCACTAACCTGTTACATGAACTTATGGTAAGGCGAGGTCATCCAAATTGCTATATTC (SEQ ID NO:29)
3659delC	2	none	inviader	GAGAGTTGGCATCTCTGTTACCTCTGTTGCG (SEQ ID NO:30)
3659delC	2	hex	probe/DM	CGGCCGCGAGGAGGTTACCTCTGTTGCG (SEQ ID NO:31)
A455E	1	none	synthetic target	CGTCAAAGAATATTCAAGATGAAAGAACCTACAGAAACCAACCAACCAACAA (SEQ ID NO:32)
A455E	1	hex	inviader	CGCCTTTGGATGCTCTAACCTTACAGGAACTGGAGCTGTTGT (SEQ ID NO:33)
A455E	1	none	synthetic target	ACGGACGCCGGAGGAGCTGCTGAACT (SEQ ID NO:34)
1078delT	2	none	inviader	CCATGCTGACCAACCTGCTCTCTGAACTTATCTGAACTTAACTCTTCAGG (SEQ ID NO:35)
1078delT	2	hex	probe/DM	AGTCGATAGGAGGACGATAAAACCCACAT (SEQ ID NO:36)
1078delT	2	none	synthetic target	CGGCCGCGAGGAGGAGCCCTGAGAAAGAA (SEQ ID NO:37)
G581D	2	none	inviader	AGGCTTCTCTGCTTACACAGGATGAGATACTTGTGTTGATT (SEQ ID NO:38)
G581D	2	hex	probe/ER24	GGCGAGAAAGAACATAATGCTCTGGAAACTGGGAT (SEQ ID NO:39)
G581D	2	none	synthetic target	CTGTCAAAAGAAATTTCGTCGTTGCTCCACCTCTGTTGATCT (SEQ ID NO:40)
G581D	2	hex	inviader	AAATCAAACAACTAAACATGCTTCTGCTGAACTTATTCCTGAAACTT (SEQ ID NO:41)
1148T	1	none	probe/ER24	ACGGACGCCGGAGGTTGATGAGGCCAA (SEQ ID NO:42)
1148T	1	hex	synthetic target	CCATATTCTCTGCTTACACAGGATGAGATACTTGTGTTGATT (SEQ ID NO:43)
N1303K	2	none	inviader	CCATATTCTCTGCTTACACAGGATGAGATACTTGTGTTGATT (SEQ ID NO:44)
N1303K	2	hex	probe/DM	CGGCCGCGAGGCTTCTGGAAACATTGTTCTGAGAA (SEQ ID NO:45)
N1303K	2	none	synthetic target	ATTATTCTCTGGAAACATTGTTCTGAGAA (SEQ ID NO:46)
711+G>T	2	none	inviader	GCCCTTCCAGTTGTTACATAGCTTAAAGATTAAATGATGTCATT (SEQ ID NO:47)
711+G>T	2	hex	probe/DM	CGGCCGCGAGGAACTCATATTGTTGAGT (SEQ ID NO:48)
711+G>T	2	none	synthetic target	ACCTGAAACAAATTGATGAAATTGACCTTGTATTAATGAACTGGAAAGGG (SEQ ID NO:49)
711+G>A	3	none	inviader	GCCCTTCAAAATGAGGAACTTACAACTCTTGTGAACTT (SEQ ID NO:51)

Figure 2 cont'd

"Replacement Sheet"

Mutation	Exemplary Pool	3' blocking group	Oligo type (Arm)		
Internal control	all	Hex	DNF/FAM	Y-tct-X-3gc-ccg-3ttt-3gc-3gc-3gc-hex (SEQ ID NO:75)	Sequence (5'-3')
Internal control	all	Hex	EF24/FAM	Y-tct-X-3gc-ccg-3ttt-3gc-3gc-3gc-hex (SEQ ID NO:72)	
Internal control	all	Hex	SNP4b/Red	Y-tct-X-3gc-ccg-3ttt-3gc-3gc-3gc-3gc-hex (SEQ ID NO:73)	
Internal control	all	none	Synthetic Target	X = Quencher = Z28	

Mutation	Pool	3' blocking group	Oligo type (Arm)		
all	Hex	none	probe/DM	synthetic target	
1, 2, 5	Hex	hex	probe/ER24	probe/ER24	Sequence (5'-3')
all	Hex	none	probe/ER24	probe/ER24	
Internal control	all	none	Synthetic Target	X = Quencher = Z28	

Mutation	Pool	3' blocking group	Oligo type (Arm)		
delF508	delF508	none	probe/DM	synthetic target	
delF508	delF508	hex	WT Probe	WT Probe	Sequence (5'-3')
delF508	delF508	hex	DN/FAM	DN/FAM	
delF508	delF508	hex	Wingra/Red	Y-tct-X-3gc-ccg-3ttt-3gc-3gc-3gc-3gc-hex (SEQ ID NO:82)	
delF508	delF508	none	WT Target	Y-tct-X-3gc-ccg-3ttt-3gc-3gc-3gc-3gc-hex (SEQ ID NO:83)	
delF508	delF508	none	Mut Target	ATGCCCTGGCACCAATTAAAGAAATATCATGGTTCCTATGTAATAGATACAGAACCTCATCAA (SEQ ID NO:84)	

Mutation	Pool	3' blocking group	Oligo type (Arm)		
2184delA	2184delA	none	probe/ER24	CCTCCCTTTTCCCCAAACTCTCCAGTCGTTAAAGATTGTTTA (SEQ ID NO:88)	Sequence (5'-3')
2184delA	2184delA	hex	MUT probe/DM	CGGCCCGGAGGTTCTGTCAGGAG (SEQ ID NO:86)	
2184delA	2184delA	hex	WT probe/ER24	ACGGACGCGGAGGTTCTGTCAGGAG (SEQ ID NO:87)	

X = Quencher = Z28

Y = Dye = FAM for 1055-48-08 and Y = Z35 (or Redmond Red) for 1055-49-04

Mutation	Pool	3' blocking group	Oligo type (Arm)		
711+G>T	2	hex	probe/ER24	ACGGACGCGGAGGTTCTGTCAGGAG (SEQ ID NO:88)	Sequence (5'-3')
3849+10kb	2	hex	probe/ER24	ACGGACGCGGAGGTTCTGTCAGGAG (SEQ ID NO:89)	